

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	11	(raul.inv. and "tocci.inv") or (martin.inv. and radue.inv.)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/01 10:37
S2	1966	((417/416,417,552) or (123/499)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/31 15:16
S4	1109	(S1 or S2) and (plunger or piston)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 15:13
S5	114	S4 and (valve WITH stem)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 16:07
S6	11	S5 and poppet	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 12:35
S7	40	S4 and poppet	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 12:34
S8	47	("1908092"   "2934256"   "3386622"   "3606595"   "3642385"   "3781140"   "4116591"   "4219863"   "4266523"   "4300873"   "4308475"   "4345565"   "4533890"   "4616930"   "4787823"   "4829947"   "4940035"   "5032772"   "5064353"   "5080079"   "5104229"   "5104298"   "5161779"   "5334910"   "5351893"   "5434549"   "5469828"   "5472323"   "5520154"   "5540206"   "5630401"   "5779454"   "5960766"   "5961045"   "5996548"   "6024071"   "6109549"   "6161525"   "6188561"   "6290308"   "6398511"   "6401696"   "6607361").PN. OR ("6966760"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 16:26
S9	4	S8 and poppet	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 16:26
S10	13	"6796777".pn. or "6761543".pn. or "6585500".pn. or "6491506".pn. or "5509792".pn. or "2961149".pn. or "2833221".pn. or "20060043798" or "20040126253" or "20050089418"	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 16:55
S11	12	(raul.inv. and tocci.inv.) or (martin. inv. and radue.inv.)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 12:36

## EAST Search History

S12	18	(US-20050276706-\$ or US-20030141051-\$ or US-20050089418-\$).did. or (US-3781140-\$ or US-5662461-\$ or US-6295972-\$ or US-6298822-\$ or US-6966760-\$ or US-6585500-\$ or US-6491506-\$ or US-6398511-\$ or US-6964263-\$ or US-6109549-\$ or US-7150606-\$).did. or (US-3400663-\$ or US-1528086-\$ or US-1449534-\$ or US-3200591-\$). did.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 14:58
S13	9	((US-20050276706-\$ or US-20030141051-\$ or US-20050089418-\$).did. or (US-3781140-\$ or US-5662461-\$ or US-6295972-\$ or US-6298822-\$ or US-6966760-\$ or US-6585500-\$ or US-6491506-\$ or US-6398511-\$ or US-6964263-\$ or US-6109549-\$ or US-7150606-\$).did. or (US-3400663-\$ or US-1528086-\$ or US-1449534-\$ or US-3200591-\$). did.) and (nipple or stop\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 15:03
S14	11	(raul.inv. and "tocci.inv") or (martin.inv. and radue.inv.)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 19:13
S15	1966	((417/416,417,552) or (123/499)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/09 15:13
S16	1109	(S14 or S15) and (plunger or piston)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 15:13
S17	496	S16 and (nipple or stop\$4 or taper)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 15:14
S18	12	S16 and (valve WITH stem) and stab\$5	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 16:19
S19	2969	(417/410.1,415,437,545).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/09 16:20
S20	1459	S19 and (plunger or piston)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 16:21
S21	99	S20 and (valve WITH stem)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 16:22

## EAST Search History

S22	60	S21 and (nipple or stop\$4 or taper)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 16:48
S23	39	S21 NOT S22	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 18:08
S24	3857	(310/12,14,15,23,17).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/09 18:10
S25	668	S24 and (plunger or piston)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 18:10
S26	21	S25 and (valve WITH stem)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 18:14
S27	6	S25 and poppet	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 18:16
S28	486	S25 and magnet	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 18:36
S29	20	S28 and (magnet WITH abut\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 18:24
S30	274	S25 and (nipple or stop\$4 or taper)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 18:36
S31	12	(raul.inv. and tocci.inv.) or (martin. inv. and radue.inv.)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 19:13
S32	764	bombardier.as.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 19:17
S33	152	S32 and (piston or plunger)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/09 19:17
S34	1914	(417/545,549,552,553).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/12 10:04
S35	507	S34 and (poppet or head or cap)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/12 10:05
S36	9502	((417/416,417,552,410.1,415,437, 545,549,553) or (123/499) or (310/12,14,15,23,17)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/31 15:17

## EAST Search History

S37	6004	S36 and (pump or motor)	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 15:22
S38	2333	S37 and valve and (piston or plunger)	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/31 15:56
S39	1977	((417/416,417,552) or (123/499)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/31 15:56
S40	1029	S39 and valve and (piston or plunger)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/01 09:13
S41	1	("2005/0025638").URPN.	USPAT	OR	ON	2007/05/31 16:02
S42	47	((("5273405") or ("5725365") or ("6138643") or ("5507630") or ("6135719") or ("6158967") or ("6183212") or ("4247266") or ("4476836") or ("4486005") or ("4502504") or ("4551077") or ("4856966") or ("4878815") or ("4958610") or ("4989469") or ("5333998") or ("5343791") or ("5351752") or ("5390825") or ("5415489") or ("5447026") or ("5492535") or ("5520155") or ("5657929") or ("5676114") or ("5678478") or ("5700137") or ("5749717") or ("5800063") or ("5819704") or ("5829958") or ("5832727") or ("5848880") or ("5897304") or ("5983863") or ("5997181") or ("6022337") or ("6086340") or ("6132414") or ("6152734") or ("6164924") or ("6378418") or ("7121812") or ("4862911") or ("5037276") or ("5241986"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/01 09:21
S43	5	"20030206811" or "20040161351" or "20040178285"	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/01 09:21
S44	442	(piston or plunger) WITH "valve stem" WITH poppet	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/01 11:38
S45	442	((piston or plunger) WITH "valve stem" WITH poppet)".clm"	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/01 11:38

# Interference Search.

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S44	442	(piston or plunger) WITH "valve stem" WITH poppet	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/01 11:38
S45	442	((piston or plunger) WITH "valve stem" WITH poppet)".clm"	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/01 11:38